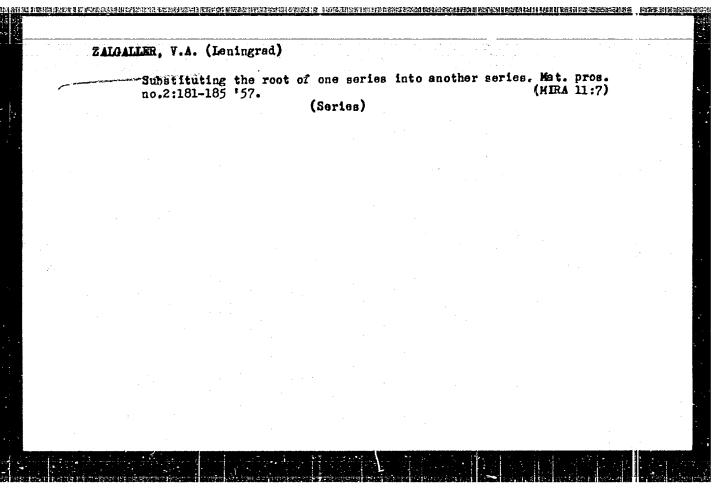
ZAIOALLER, V.A. (Leningrad); OSTROVSKIY, A.I. (Moscow); NOVIKOVA, V.S.

(Urekhovo-zupero); ZHAROV, V.A. (Yaroslavl'); SYOBODA, A.

(Chekhoslovakiya); DYNKIN, Te.B. (Moscow); RAIASH, E.E. (Moscow)

Problems of elemetary mathematics. Mat. pros. no.1:219-224 '57.

(Mathematics--Problems, exercises, etc.)



43-7-6/18 ZALGALLER, Y. AUTHOR: Method for the Introduction of the Measure (Ob odnom TITLE: sposobe vvedeniya mery) PERIODICAL: Vestnik Leningradskogo Universiteta, Seriya Matematiki, Mekhaniki i Astronomii, 1958, Nr 7 (2), pp 49-51 (USSR) The author has the effort to collect in a uniform scheme the ABSTRACT: different methods used by A.D.Aleksandrov for definitions of the curvature and the area. Therefore he proposes the following definition of measure. Let t denote a closed connected set. Let S be a system of the  $t_i$  in the metric space R. For  $t_1, t_2 \in S$ let the definition  $t_1 \cap t_2$  ("non-overlapping") be defined, where a) from  $t_i \cap t_j$  there follows  $t_j \cap t_i$ , b) from  $t_i \cap t_j = 0$  there follows  $t_i \cap t_j$ , c) from  $t_i \cap t_j$  and  $t_k \subset t_j$  there follows  $t_i \cap t_k$ . On the sets  $t \in S$  let be defined a function  $\varphi(t)$ ,  $\varphi(0) = 0$ .  $\varphi(t) \geqslant 0$ . Let  $\{P\}$  be a system of sets, where every set admits at least one representation as a finite sum of pairwise "nonoverlapping"  $t_i \in S$ . Let  $T_p$  be a certain representation of this kind. Let  $d(T_p)$  be the greatest diameter of the  $t_i \in T_p$ . Then let Card 1/2

On a Method for the Introduction of the Measure

43-7-6/18

 $M_{O}(P) = \overline{\lim}$   $\sum \varphi(t_{i})$  and  $M_{O}(P) = 0$  if there does not  $d(T_{p}) \to 0$   $t_{j} \in T_{p}$  exist a  $T_{p}$  with an arbitrarily small  $d(T_{p})$ . For an open set G let  $M_{O}(G) = \sup_{P \subseteq G} M_{O}(P)$  and for arbitrary  $M: M(M) = \inf_{G \subseteq M} M_{O}(G)$ .

The author gives conditions under which M(M) is the measure of Caratheodory, the exterior measure of Lebesgue, the variation of a curve (in the sense of Aleksandrov), the area of M and the positive part of the curvature  $\omega^+(\mathbb{K})$ . 5 Soviet references are quoted.

SUBMITTED: AVAILABLE: Card 2/2

February 25, 1957 Library of Congress

1. Measurement-Theory 2. Mathematical analysis

是一个大型,不是一个工程,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的

16(1) AUTHOR:

Zalgaller. V.A.

507/43-58-19-1/16

TITLE:

The Attraction of Round Plates; The Irradiation of a Round Target by a Round Source (Prityazheniye kruglykh plasti: ;

oblucheniye krugloy misheni kruglyn istochnikom)

PERIODICAL:

Vestnik Leningradskogo universiteta, Seriya matematiki,

mekhaniki i astronomii, 1958, Nr 19(4), pp 58 - 75 (USSR)

ABSTRACT:

The paper contains numerous applications of the method of Hammersley [Ref 1] (reduction of the multiplicity of a multiple integral) to several problems of applied sciences.

The results are partly already known, partly rather obvious.

There are 13 figures, and 10 references, 4 of which are Soviet, 3 English, 1 German, 1 American, and 1 French.

SUBMITTED:

April 16, 1957

Card 1/1

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963710004-0"

SOV/20-123-4-5/53 Zalgaller, V.A. AUTHOR:

Isometric Imbedding of Polyhedra (Izometricheskoye vlozhenije TITLE:

poliedrow)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol 123, Nr 4, pp 599-601 (USSR)

The following theorem is proved: ABSTRACT:

Let n = 1,2,3 or 4. Let the polyhedron  $P^n$  consist of simplexes

of the space Rn of constant curvature. Every Pn can be imbedded isometrically into the Rn if self-intersections and

overlappings are admitted.

The proof is constructive and is given by the author for n = 1,2,3. The proof for n = 4 is not given because it is too complicated. A proof for n>4 could not be obtained.

ASSOCIATION: Leningradskoye otdeleniye matematicheskogo instituta imeni V.A. Steklova Akademii nauk SSSR (Leningrad Section of the

Mathematical Institute imeni V.A.Steklov, AS USSR) PRESENTED: July 7, 1958, by V.I.Smirnov, Academician SUBMITTED: July 2, 1958

Card 1/1

16.5500

69754 \$/043/60/000/02/05/011

AUTHORS: Burago, Yu.D., and Zalgaller, V.A.

TITLE: Polyhedral Imbedding of a Net 10

PERIODICAL: Vestnik Leningradskogo universiteta, Seriya matematiki, mekhaniki iastronomii, 1960, No.2, pp 66-80

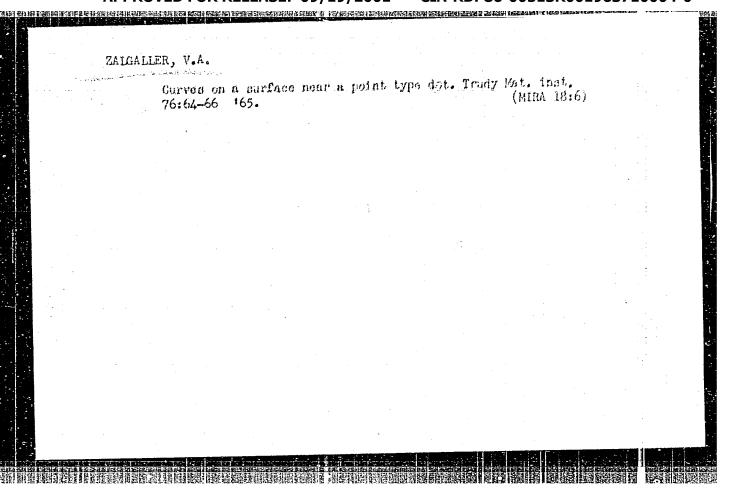
TEXT: Given a complex of plane triangles homeomorphic to a closed region on an orientable two-dimensional surface. Then in the E3 there exists a polyhedron without a self-intersection which is isometric to this complex. The author mentions A.D.Aleksandrov. There are 9 figures and 5 references: 2 Soviet, 1 English and 2 American.

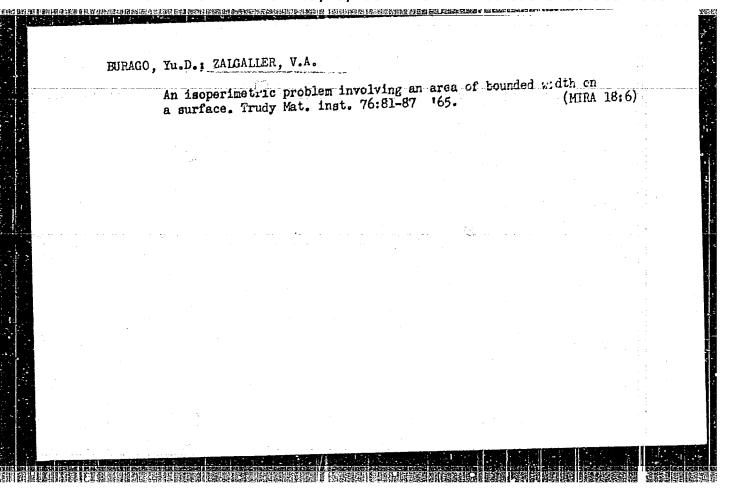
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Card 1/1

AKILOV, G.P.; VULIKH, B.Z.; GAVURIN, M.K.; ZALGALLER, V.A.; NATANSON, I.P.; PINSKER, A.G.; FADDEYEV, D.K.

Leonid Vital'evich Kantorovich; on his 50th birthday. Usp.
mat.nauk 17 no.4:201-215 '62. (MIRA 15:8)
(Kantorovich, Leonid Vital'evich, 1912-)





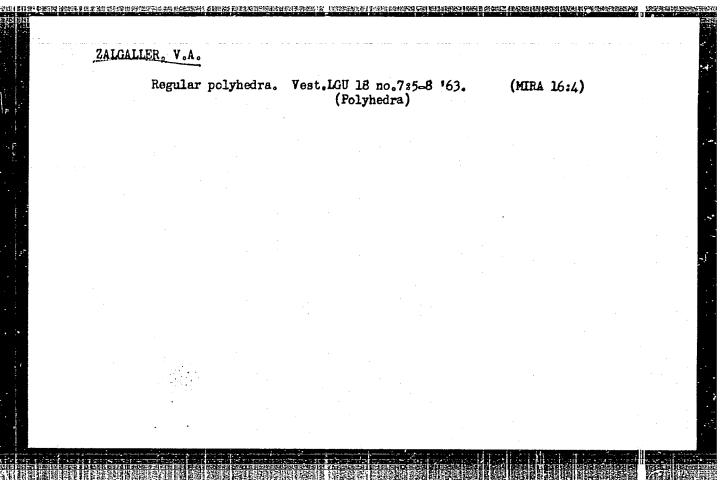
ZAIGALLER, V.A.

Regular-faced polyhedra. Vest. IGU 20 no.1:150-152 '65.

(MIRA 15:2)

BELYAYEVA, T.B.; ZALGALLER, V.A.

Formulation of the theory of envelopes; a methodological note.
Usp. mat. nauk 18 no.5:137-149 S-0 '63. (MIRA 16:12)



ZALGALLER, V. 4.

Representation of a function of two variables as the difference of convex functions. Vest, LGU 18 no.1:44-45 '69, (MIRA 16:1)

(Functions of several variables)

(Programming(Electronic computers))

YEFIMOV, N.V.; ZALGALLER, V.A.; POGORELOV, A.V.

Aleksandr Danilovich Aleksandrov; on his 50th birthday. Usp. mat.nauk 17 no.6:172-184 N-D '62. (MIRA 16:1) (Aleksandrov, Aleksandr Danilovich, 1912-)

ALEKSANDROV, Aleksandr Danilovich; ZALGALLER, Viktor Abramovich; PETROVSKIY, I.G., akademik, otv.red.; NIKOL'SKIY, S.M., prof., zamestitel'otv.red.; BARKOVSKIY, I.V., red.izd-va; ZENDEL', M.Ye., tekhn. red.

> [Two-dimensional manifolds of bonded curavture; fundamentals of the internal geometry of surfaces Dymernye mnogochraziia ogranichennoi krivizny; osnovy vnutezrnnei geometrii poverkhnosteik Moskva, Izd-vo Akad. nauk SSSR, 1962. 262 p. (Akademiia nauk SSSR. Matematicheskii institut. Trudy, vol. 63). (MIRA 16:2)

(Surfaces)

(Curves)

ZAIGALLER, V.A.

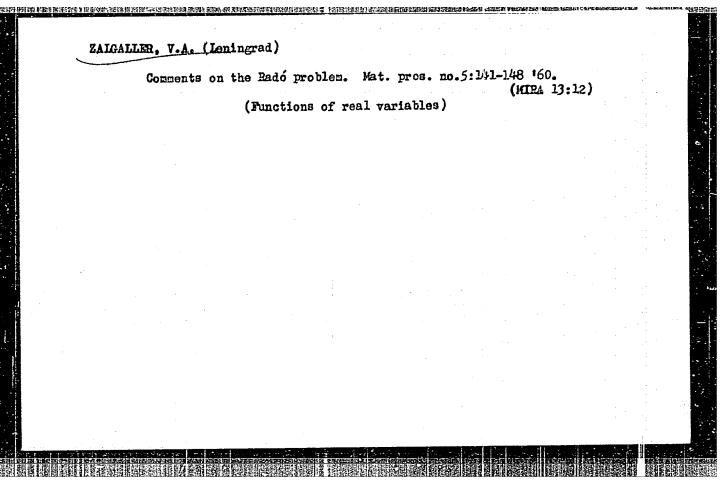
Possible characteristics of smooth surfaces. Vest.IGU 17 no.7:71-77 \*62. (Surfaces)

# ZAIGALIER, V.A. (Leningrad) How to get out of the wood? One of Bellman's problems. Mat.pros. no.6:191-195 '61. (Programming(Mathematics)) (MIRA 15:3)

ZAIGALLER, Y.A. (Leningrad); RUDENED, N. (Moskva); DAYYDOY, U. (Gomel');
RABINOVICH, V. (Petropavlovsk-Kazakhstanskiy); BESKIN, L.N. (Moskva);
TANATAR, I.Ya. (Moskva); SKOPETS, Z.A. (Yaroslavl'); DUENCO, Ya.S.
(Moskva); GEL'FOND, A.O. (Moskva); ROPINSON, R.M. (SShA); BAIX,
N.B. (Smolensk); SHUB-SIZONENED, Yu.A. (Moskva)

Solutions to the problems. Mat. pros. no.5:261-274 '60.
(MIRA 13:12)

(Mathematics—Problems, exercises, etc.)



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M-4

ZALGAUTSKAYA, I.K.

USSR/Cultivated Plants - Technical, Oil, and Sugar Plants.

Abs Jour : Ref Zhur - Biol., No 3, 1958, 10916

Author : Zalgautskaya, I.K.

Title : An Experiment in the Square-Nest Distribution of Plants.

Orig Pub : Sakharnaya svekla, 1957, No 4, 5-8

Abstract : Experiments conducted in 1948-1953 on the Mezhotnens

Testing and Selecting Stations (Latvian SSR) have demonstrated that under Latvian conditions a distance of 44.5 cm, between rows gives no better yields or higher sugar content than a distance of 60 cm. The 60 cm. distance reduces labor input in the gaps by 25% and creates the best conditions for mechanical cultivation "sharovka" and plowing between the rows. When the square nest method was used (60 x 60 cm.) and two plants were left 7-8 cm. apart in the nest,

the yield was 450-500 centners per hectare.

Card 1/1

ZALIBEKOV, Z.G.

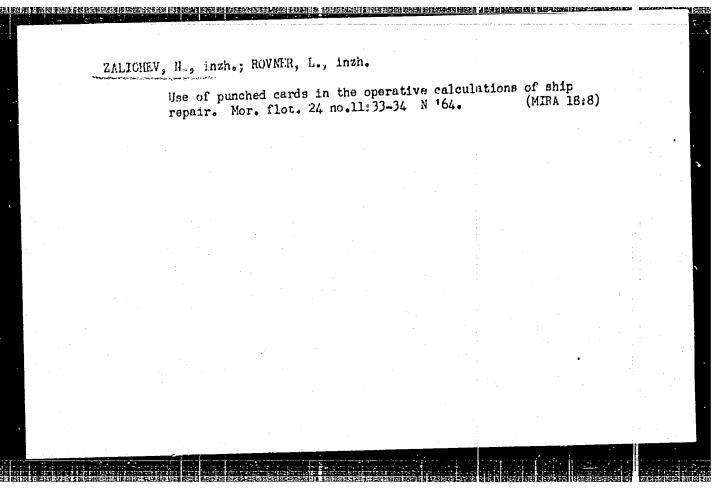
Identification of brown soils in the Aktash Piedmont Plain of Daghestan. Pochvovedenie no.10:33-41 0 '65. (MIRA 18:11)

1. Dagestanskiy gosudarstvennyy universitet.

VYDRA, A.Ya.; ZALICHENKO, Z.Ya.; DERBAREMDIKER, P.Z.

Effect of the concentration of the sizing solutions and additives on the viscosity of the product. Leh.prom. no.1: (MIRA 15:9) 66-70 Ja-Mr '62.

1. Darnitskiy shelkovyy kombinat. (Sizing)



ZALICHENOK, Gavriil Grigor yevich, kand. tekhn. nauk, laureat Gos. premii; SHCHEDROVITSKIY, S.S., kand. tekhn. nauk, nauchn. red.; KUPERSHMIDT, L.S., red.

[Automating enterprises of the construction industry]
Avtomatizatsiia predpriiatii stroitel'noi industrii.
Moskva, Vysshaia shkola, 1965. 419 p. diagr.
(MIRA 18:12)

22至24年 网络亚亚亚亚加州西班牙里斯亚州 | 1985年高州 拉利亚州西州 (北京新华州州州 1986年3月15日) 18 (323年8月 日日本5元3日

ZALICHONOK, Nikolay Anisimovich[Zalichonak, N.A.], ekskavatorshchik; MISHANAVA, Yo.A., red.; UCHUKHLEBAU, A.A., tekhn. red.

[Full load for excavators]Ekskavataram - poumuiu nahruzku. Minsk, Dziarzh. vyd-va sel'skohaspadarchai lit-ry BESR, 1962. 29 p. (MIRA 15:11)

1. Rudakovskoye Eelorusskoye meliratsionnoye upravleniye, Gomel'skoy oblasti (for Zalichonck). (White Russia—Drainage)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963710004-0"

ZALICHTA, Stefania and BLASZYNSKA, Maria; Department of Hedical Microbiologii Lekarskiej AM) Head (Kierownik) Profat Medical Academy (Zaklad Mikrobiologii Lekarskiej AM) Head (Kierownik) Prof Dr J. PARNAS, Lublin.

"Physiological Changes in Streptococci Maintained on Blood Agar Media."

Warsaw, Medycyna Doswiadczalna i Mikrobiologia, Vol 18, No 1, 1966; pp 15-21.

Abstract [English summary modified]: Study of persistence of strain-specific properties in 155 streptococcal strains: alpha and beta-hemolytic activities tended to decrease but there was no complete loss or acquisition de novo of either after about 6 years cultures. Some strains became more similar to enterococci as regards optimal growth media following 2 years in sheep blood agar. Two tables, 3 Polish and 11 Western references.

di la destruit in la capacitation de la company 25533-66 GIS/0038/65/019/004/1095/1102 SOURCE CODE: ACC NR: AF6016400 (A) AUTHOR: Parnas, Josef (Professor; Doctor; Director; Lublin); Zalichta, Stefania (Doctor; Lublin); Tuszkiewicz, Maria (Doctor; Lublin) ORG: Institute of Medical Microbiology and Epidemiology, directed by Prof., Dr. J. Parnas/, Polish Academy of Medicine, Lublin TITIE: Phenomenon of brucella phage adsorption through chemical brucella substrates SOURCE: Archiv fur experimentelle Veterinarmedizin, v. 19, no. 4, 1965, 1095-11(2 TOPIC TAGS: bacteriophage, virology, bacteriology ABSTRACT: Acetone substrates of three brucella species (Br. bovis, swis, melitersis) can exert specific inhibition on brugella phage activity. Acetone substrates of other bacterial species do not exert this inhibition. The specificity of this effect was confirmed by experiments with staphylococcus phages which were not inhibited by brucella substrates. The greatest inhibition was exerted by the substrate of Br suis, the least by Br. melitensis. Inhibition was proportional to the dilution. is considered probable that Br. melitensis strains contain an antigen substance in their cell wall which serves as receptor of the brucella phages. In the majorit; of the members this may be localized in the interest of the cells, and yet be potentially present. It seems possible that the dehydration of the cells with acetone and the drying process effects a shifting of these receptors closer to the cell wall. A differentiation of Br. species is not possible by means of this inhibition test since all three inhibit the Br. phage activity. Orig. art. has: 3 figures and 5 tables. Based on authors abst. JRS SUBM DATE: 21Dec64 SUB CODE:

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ZACRODZKI, Stanislaw; WALERIANCZYK, Edmund; ZALICKI, Jerzy

Delimining of sugar solutions by cation-exchanger in the natrium and ammonium cycle. Rocz (sech chem zyun 8:5-18 '61.

1. Katedra Cukrownictwa i Technologii Srodkow Spozywczych, Politechnika, Lodz. Kierownik Katedryz: prof dr. S.Zagrodzki.

ZAGRODZKI, Stanislaw (Lodz); KUBIAK, Jan (Lodz); ZALICKI, Jerzy (Lodz)

Production of lactic acid from potato syrup. Przem spoz 15 no.9:
26-33 '61.

ALICHENAC, L.G.

Fulse Techniques (55036881)

TK7835.M4 1954

1. Fulse techniques (Electronics) I. Zalichenko, L. G.

PARNAS, J.; ZALICHTA, S.

Further data on the characteristics of Brucella phages: inactivation by antigenic acetone substrates of Brucella. Bull. acad. Pol. sci. (Biol) 13 no.3:145-150 \*65.

1. Submitted December 9, 1964.

ZALIGIN, O.G. [Zalyhin, O.H.], inzh.-mekhanik

Preparing gramulated organomineral fertilizers. Mekh. sil'. hosp.
12 no. 3:10-12 Mr '61.

(Fertilizers and manures)

(Fertilizers and manures)

ZALIGYAN, G.G., lyubitel'-sadovod

An effective means. Zashch. rast. ot vred. i bol. 9 nc.9:38 '64.

(MIRA 17:11)

ZALIKREKOV, Z. G.

Several problems in the soil zonality of the Aktash piedmont plain in Daghestan. Izv. Vses.geog.ob-va 96 no. 2:139-140 (MIRA 17:5)

TO HER DESIGNATION OF A LEGISLATURE SERVICE OF THE PROPERTY OF

STREPIKHEYEV, Yu.A.; ZALIKIN, A.A.; CHIMISHKYAN, A.L.

Determination of primary, secondary, and tertiary amino groups in polynuclear polyamines. Zhur.anal.khim. 18 no.10:1262-1265 0 163. (MIRA 16:12)

1. Mendeleev Moscow Chemico-Technological Institute.

ZALIKIN, A.A.; KOCHETKOV, V.L.; STREPIKHEYEV, Yu.A.

Some physical and physicochemical constants of m- and p-chloraniline and m- and p-chlorophenylisocyanates.

Khim. prom. 41 no.5:338 My '65. (MIRA 18:6)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni Mendeleyeva.

RM/WW/JWD EWP(j)/EWT(m)/T/EWP(v) IJP(c) L 37218-66

ACC NR: AP6018128

SOURCE CODE: UR/0191/66/000/006/0046/0048

AUTHOR: Zalikin, A. A.; Davydov, A. B.; Strepikheyev, Yu. A.; Ivanova, Z.G.

ORG: none

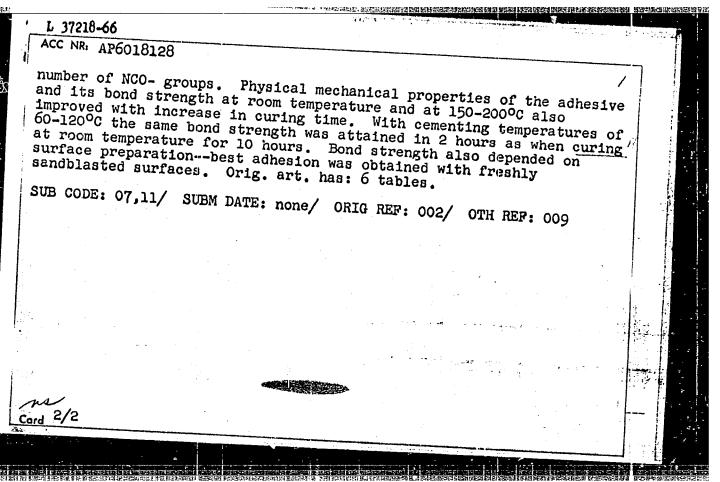
TITLE: Use of polycyclic polyisocyanates as components in cold curing adhesive compositions

SOURCE: Plasticheskiye massy, no. 6, 1966, 46-48

TOPIC TAGS: isocyanate resin, polyester plastic, adhesive, adhesion, heat resistance

ABSTRACT: /The possibility of using polycyclic polyisocyanates (A) in adhesives that will cure without heat to attain improved heat stability was investigated. A, made of aniline, o-toluidine, or o-chlorcaniline with formaldehyde, were used as 50% acetone or toluylene diisocyanate solutions. To prepare the adhesive various polyesters were added, also as 50% acetone solutions or as powders. The components were mixed, catalyzed with a 5% aqueous potassium methacrylate solution, mixed again and spread onto steel or duralumin surfaces 30-40 minutes later. Bond strength and heat stability depended on the composition of the polyisocyanate, increasing with increase in its molecular weight and Cord 1/2

UDC: 678.664.668.395.6



ACC NR. AP6009027 SOURCE CODE: UR/0064/65/000/011/0017/020 AUTHOR: Zalikin, A. A.; Strepikheyev, Yu. A. ORG: none TITIE: Synthesis and properties of the polynuclear polyisocyanates SOURCE: Khimicheskaya promyshlennost', no. 11, 1965, 17-20 TOPIC TAGS: polymer, synthetic material, polyamine compound, isocyanate resin, poly-ABSTRACT: Several polynuclear polyisocyanates with molecular weights of 280-500, 21.6--33.6% NCO-groups, and 1.3-11.2% hydrolyzable chlorine were synthesized via a twostage phosgenation of various mixtures of polymethylenepolyphenylenepolyamines in chlorobenzene. The temperature in the first stage was 100°C and its duration was 75 min. The temperature in the second stage was 120°C and its duration was 75 min. The yields of the polynuclear polyisocyanates were within the 92-97% range. The starting polyamines, with 158-400 molecular weight and 6.9-14.8% NH2-group content, were synthesized from aniline, ortho- and paratoluidine, o-chloroaniline, formaldehyde, benzaldehyde, and acetaldehyde. It was found that the molecular weight and the chlorine content in polyisocyanates depended upon the molecular weight and the structure of the starting polyamines. The presence of such groups as COC1, C=0, and C-C1 in the poly-Card 1/2 UDC: 678.661.01

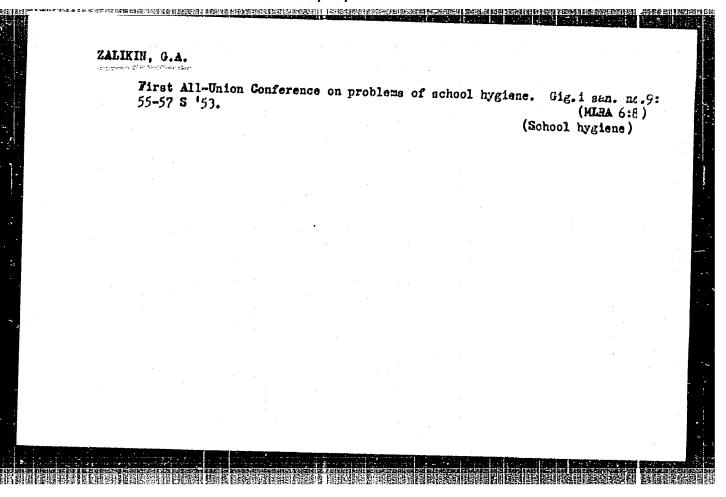
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ZALIKIN, G. A.

Volga-Don Canal

Sanitary services at the construction of the Volga-Don Ganal. Sov. med. 16 No. 7, 1952

Monthly List of Russian Accessions, Library of Congress, November 1952. Unclassified.

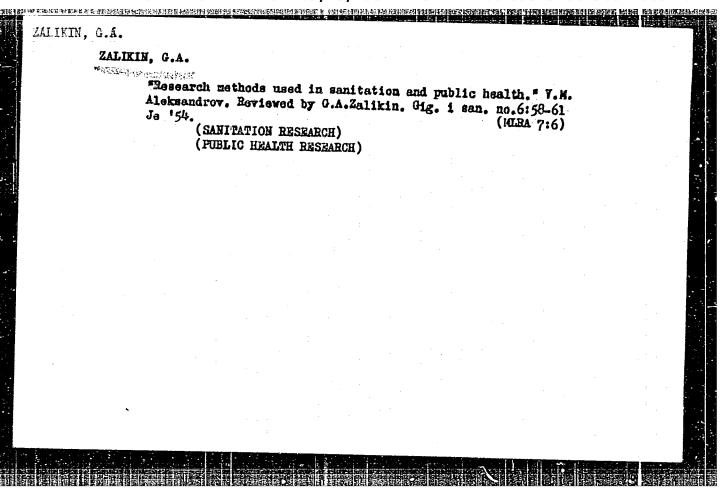


# ZALIKIH, G.A., wrach.

Charts on hygiene ("Visual aids for teaching human anatomy and physiology in the 6th class of the secondary school." O.V.Flerov. Reviewed by G.A.Zalikin). Est. v shkole no.5:94-96 S-0 '54.

中,中心环境的流域的现在分词经验的特别的现在分词的现在分词 医肠周炎 化对射性对射的经验的超过的内部的对射性的时间 医对抗性神经炎 计数据数据

1. Ministerstvo zdravookhraneniya SSSR.
(Flerov, O.V.) (Eygiene--Study and teaching)



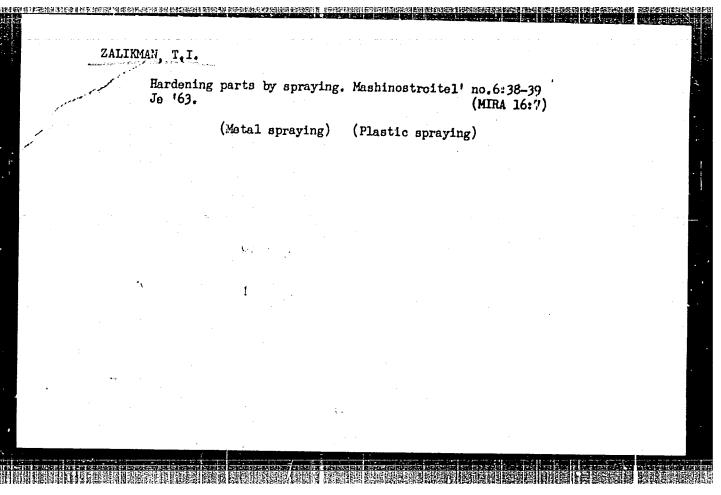
ZALIKIN, G.; YEGOROVA, O. (Moskva)

For a wider involvement of the people in the campaign for a healthy life. Fel'd. i akush. 25 no.4:18-21 Ap '60. (MIRA 14:5)

(TULA PROVINCE—PUBLIC HEALTH)

# ZALIKIN, G.A.

In the Collegium of the Ministry of Public Health of the R.S.F.S.R. Zdrav. Ros. Feder. 4 no.5/44-45 My '60.' (MIRA 13:11) (PUBLIC HEALTH)



L 07450-67 EWT(m)/EWP(j) RM SOURCE CODE: UR/0413/66/000/020/0037/0	0037
INVENTOR: Raver, Kn. R.; Zalikina, L. M.; Bruker, A. B.; Soborovskiy, L. Z.	2.7
	13
ORG: none	oxytita=
TITLE: Preparative method for phenyl-1,12,2-tetrafluoroethylphosphinotribut nium. Class 12, No. 187020	
SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 20, 196	6, 37
TOPIC TAGS: organic phosphorus compound, organotitanium compound, chemical	synthesis
ABSTRACT: An Author Certificate has been issued for a method of preparing p	
ABSTRACT: An Author Certificate has been issued for a method involves the reac 22-tetrafluoroethylphosphinotributoxytitanium. The method involves the reac sodium phenyl-1,1,2,2-tetrafluoroethylphosphide with tributoxychlorotitanium in an organic solvent (e.g., toluene).	etion of at 40C
22-tetrafluoroethylphosphinotributoxytitalian phenyl-1-1-2-2-tetrafluoroethylphosphide with tributoxychlorotitanium	etion of at 40C
22-tetrafluoroethylphosphinotributoxy trouble with tributoxychlorotitanium sodium phenyl-1,1,2,2-tetrafluoroethylphosphide with tributoxychlorotitanium in an organic solvent (e.g., toluene).	etion of at 400
22-tetrafluoroethylphosphinotributoxyticalization sodium phenyl-1,1,2,2-tetrafluoroethylphosphide with tributoxychlorotitanium in an organic solvent (e.g., toluene).	etion of at 40C
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1200

AUTHORS:

Tomashov, N.D. and Zalikov, F.P.

TITES:

The influence of the structure of thick anodically

oxidized films on their properties

Paki ODTCAL:

Amurnal prikladnoy khimii, v. 34. no. 8, 1961,

1799-1807

The investigation covered the dependence of certain properties of anodically oxidized films. produced by the hard anodizing method as developed by the Institut fizicheskoy knimii (Institute of Physical Chemistry At USOR, on their structure, Specimens of 99 99% pure aluminum, as well as of a number of binary aluminum alloys, specially cast and heat treated by homogenization and subsequent water quenching, were used. Duralumin D16ABTV (3.8 - 4.95 Sequent water quenching, were used. Duralumin D16ABTV (3.8 - 4.95 Sequent water quenching, were used. Duralumin D16ABTV (3.8 - 4.95 Sequent water quenching, were used. Duralumin D16ABTV (3.8 - 4.95 Sequent water quenching, were used. Duralumin D16ABTV (3.8 - 4.95 Sequent water quenching, were used. Duralumin D16ABTV (3.8 - 4.95 Sequent water quenching, were used. Duralumin D16ABTV (3.8 - 4.95 Sequent water quenching, were used. Duralumin D16ABTV (3.8 - 4.95 Sequent water quenching, were used. Duralumin D16ABTV (3.8 - 4.95 Sequent water quenching, were used. Duralumin D16ABTV (3.8 - 4.95 Sequent water quenching, were used. Duralumin D16ABTV (3.8 - 4.95 Sequent water quenching, were used. Duralumin D16ABTV (3.8 - 4.95 Sequent water quenching, were used. Duralumin D16ABTV (3.8 - 4.95 Sequent water quenching, were used. Duralumin D16ABTV (3.8 - 4.95 Sequent water quenching) and data sequent water quenching water qu was also studied anodic oxidation was carried out in a 4 N H2.04 was also schared. Amount oxidation was carried out in a 7 M  $^{12.04}$  solution at a temperature of 20 and anode current densities of 2.5, 5 and 10 A/dm<sup>2</sup>. The formation voltage corresponding to these curr-

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5/080/61/034/008/012/018 5204/5305

The influence of the structure...

ent densities was 22 - 27 V for aluminum and 25 - 35 V for aluminum alloys (the formation voltage is the voltage across the cathode and the anode of the bath at the time when the porous part of the film above the barrier layer begins to grow). Comparison between the structure of the anodic film forming in the normal anodizing process  $(G)_a = 1 \text{ A/dm}^2$ , formation voltage = 10 V, t = 200) was also made. Dissipation of the intense heat emitted during anodizing was carried out by means of internal cooling, in which heat was conducted away by supplementary cooling of the anodized component, or else by means of circulation of the electrolyte itself. In individual cases, simple mechanical stirring of the electrolyte was sufficient. The total porosity of the anodic films was determined by saturating the films with mineral oil at 950. Hardness measurements were carried out by means of a PMT-3 machine, using a load of 20 g on the diamond The wear resistance of the anodic coatings was studied with a Shkoda-Savina machine fitted with a revolving disc made of the superhard "Vidia" alloy, in a jet of 0.5% K2Gr04 solution. The microstructure of the anodically oxidized films was examined through

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The influence of the structure D204/

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EM-3 and EUM-100 electron microscopes. Negatives of 8 -  $12 \times 10^3$ magnifications were obtained. The metallurgical microscope MIM-6 was used for the macrostructure. The following relationships were studied: porosity (volume (3) against current density; microherdness and regular porosity against current density; wear and number of oxide cells and pores per 1 mm2 against current density; and relative wear resistance against the alloy element content (An, lig. i. du, Mn. (e). The dependence of the corrosion resistance properties on the death of the thin impervious barrier layer and the structure of the perous anodic film produced under various conditions of anodizing were also noted to was found that the structure of anodic films contains apart from the normal micropores which constitute the regular porosity, certain macro and microcracks, as well as macrovoids, which make up the so-called irregular porosity aclas tionships were revealed between hardness, trictional wear resistance and corrosion resistance of thick anodically oxidized films on the one hand and their structure on the other it was shown that the hardness and wear resistance of anodic films produced on pure aluminum depends essentially on their regular porosity. The hardness

ard 3/5

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The influence of the structure...

of anodic films produced on aluminum alloys with high copier content (4 - 8% of depends mainly on the irregular porosity. The high wear resistance of anodic films produced on a number of heterogeneous binary aluminum alloys is due to the presence in the film of crystals of intermetallic compounds (Feals, MnAl6, CuAl2), as well as crystals of Mi. The lower wear resistance of anodic films produced on homogeneous alloys is due to the greater total porosity of these films. The corrosion resistance of anodic films produced on pure aluminum depends on two factors, the thickness of the barrier layer and the number of pores in the films, with an increase in current density, films form which possess higher corrosion resistance properties; this is associated with an increase in the thickness of the barrier layer and a decrease in the regular porosity. There are 9 figures, 2 tables and 11 references: 10 Soviet-bloc and 1 non-poviet bloc. The reference to the anglish-language publication reads as follows: F. Keller, H. Hunter, D. Robinson, J. Electrochem. Loc., 100, 9, 411 (1953).

AsCOCIATION:

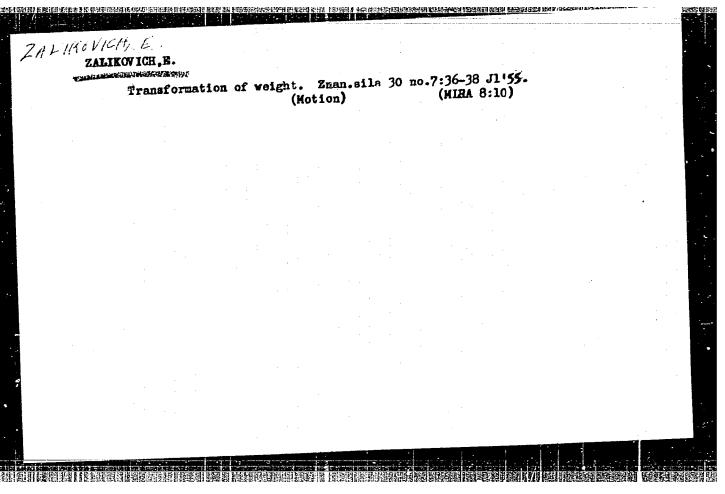
Institut fizicheskoy khimii AN SSSR (Institute of

Card 4/5

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963710004-0"

S/OSO/61/034/008/012/018
D204/D305
Physical Chemistry A3, USSR)
SUBMITTIO: ecceber 51, 1960

Card 5/5



ZALINSKAYA, Ye. D.

"Morphology of angiosperm fossil pollen and the development of the angiosperm flora during the Upper Cretaceous and Paleogene periods."

report submitted for 10th Intl Botanical Cong, Edinburgh, 3-12 Aug 64.

AS USSR, Moscow.

ZALINSKIY, Yu.G.; KAFAROV, V. V.

Hydrodynamics and conveying system on grid plates without overflow connecting pieces. Med. prom. 17 no.6:20-28 Je 63 (MIRA 17:4)

1. Vsesoyuznyy nauchmo-issledovatel skiy khimiko-farmatsevticheskiy institut imeni S. Ordzhonikidze.

DANGYAN, M.T.; ZALINYAN, M.G.

Preparation of O-exe-X-Instences. Part 2 [in Armenian with summary in Russian] Nauch.trudy Erev.un.ne.53:15-26 '56. (MLRA 9:10)

1.Kafedra erganicheskey khimii. (Lactenes)

DANGYAN, M.T.; ZALINYAN, M.G.; ARAKELYAN, S.V.

Preparation of 2-diethylaminoethyl esters of substituted M-chlorocrotylacetic acids. Izv. AN Arm. SSR. Khim. nauki 16 no.1:43-46 \*63 (MIRA 17:8)

1. Yerevanskiy gosudarstvennyy universitet, kafedra organicheskoy khimii.

条件12.11还是强用对海洋等1至直接13.14对对日子/库尼克拉尔/1906年11 医乙烯 15.05克利 15.05克拉斯·克特·阿特特 15.05克利 15.05克利 15.05克利 15.05克利 15.05克利

ZALINYAN, M.G.; DAVTYAN, M.T.

Synthesis of unsaturated 5 lectones. Freparation of 3-butyl-6-methyl-3,4-dinydr - - pyrone. Izv. AN Arm. SSR. Khim. nauki 18 no.1:321-123 165. (MIRA 18:5)

1. Yerevanskiy gosudarstvennyy universitet, kafedra organicheskoy khimii.

ZALINYAN, M.G.; DANGYAN, M.T.

Preparation of some alkoxymethyl- / - chlorocrotylacetic acids. Izv. AN Arm. SSR. Khim. nauki 18 no.3:278-281 '65. (MIRA 18:11)

1. Yerevanskiy gosudarstvennyy universitet, kafedra organicheskoy khimii. Submitted May 15, 1964.

ZALINYAN, M.G.; DARDYAN, M.T.

Proparation of & -chlorocretylsuccinic acid and its derivatives.
Report No.1: [in Armenian with summary in Russian]. Nauch. trudy
Erev. un. 60:3-8 '57. (MIRA 11:8)

1.Kafedra organicheskoy khimii Yerevanskoge gosudarstvennege
universiteta. (Succinic acid)

ZALINYAN, H.G.; DANGYAN, M.T.

Preparation of S-oxy- &-lactones. Report No.3 [in Armenian with summary in Russian]. Nauch. trudy Erev. un. 60:9-16 '57.

(MIRA 11:8)

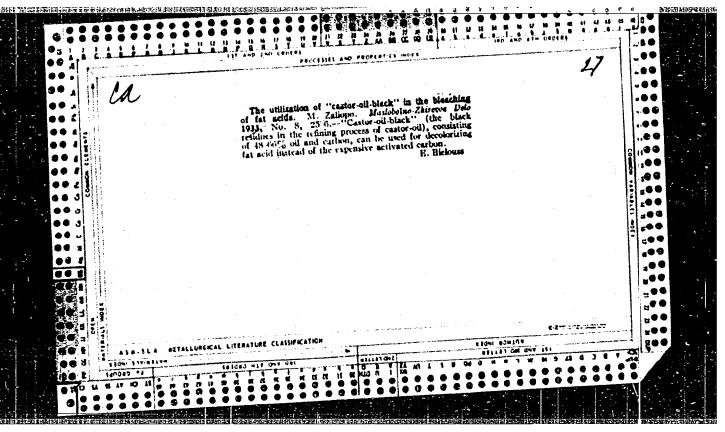
1.Kafedra organicheskoy khimii Yerevanskogo gosudarstvennogo universiteta.

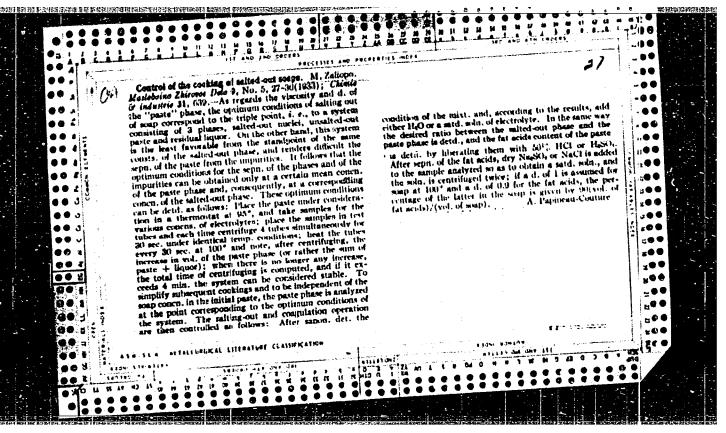
(Lactones)

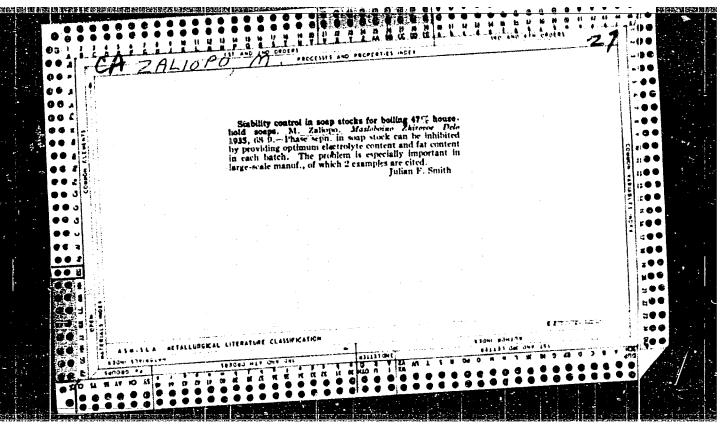
Preparation of 6-alkoxy-(aroxy-, phthalimido)- \( \square\)-lactones. Izv.AN Arm.SSR.Khim.nauki 15 no.5:439-442 '62. (MIRA 16:2)

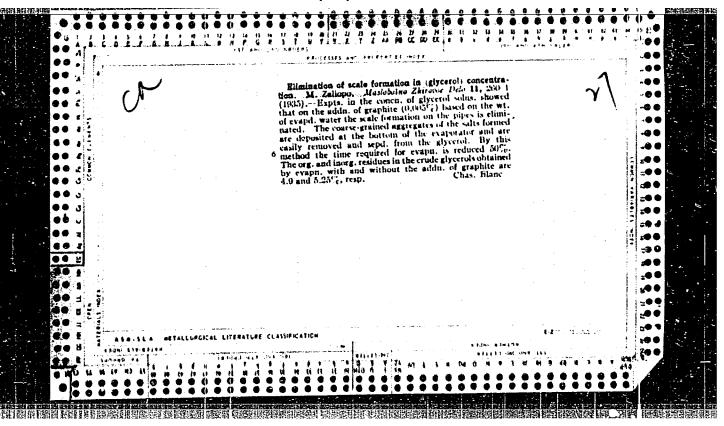
1. Yerevanskiy gosudarstvennyy universitet, kafedra erganicheskoy khimii.

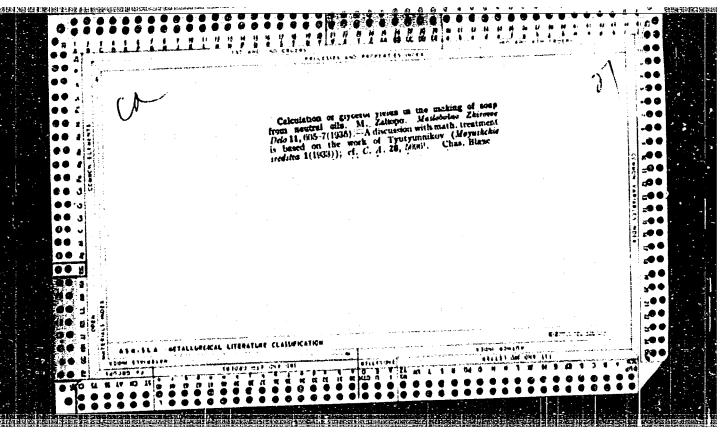
(Lactones)



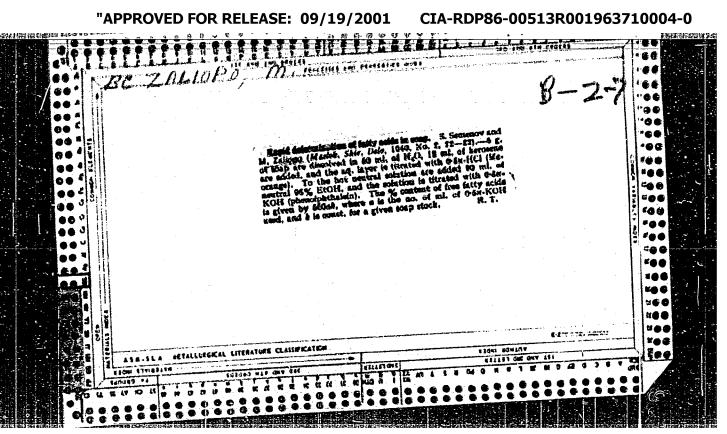


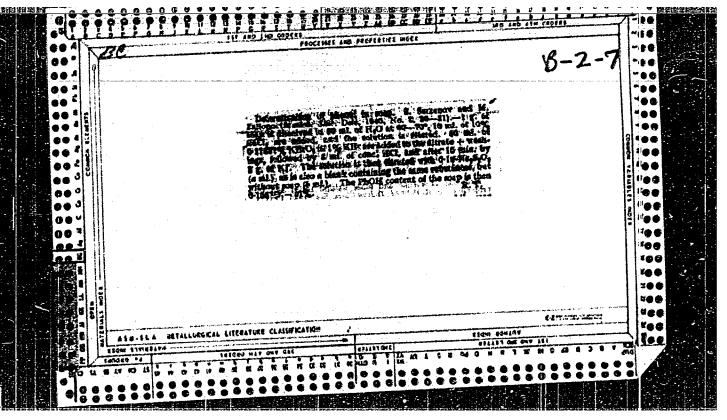


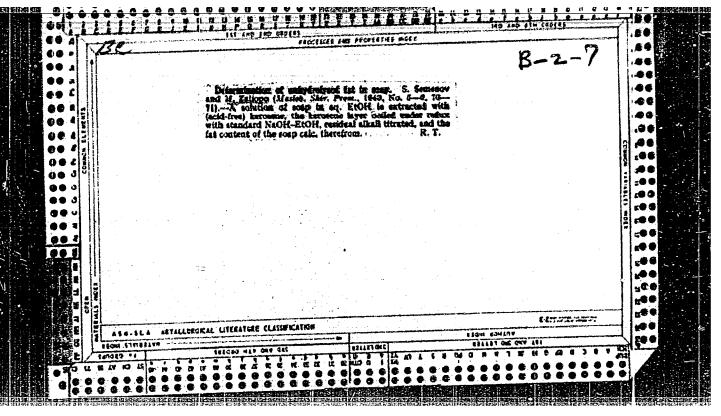


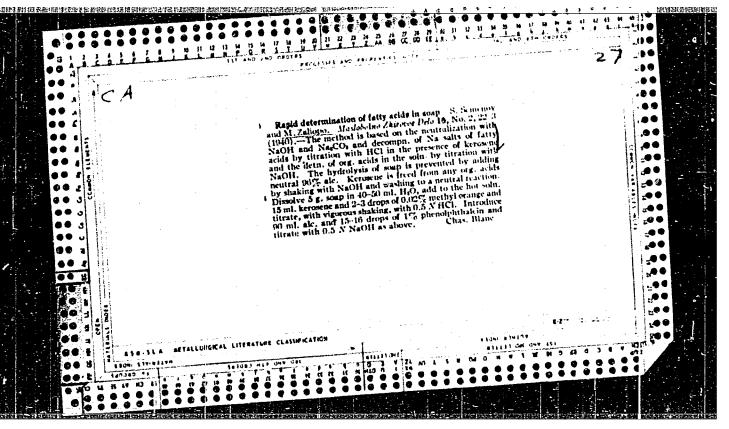


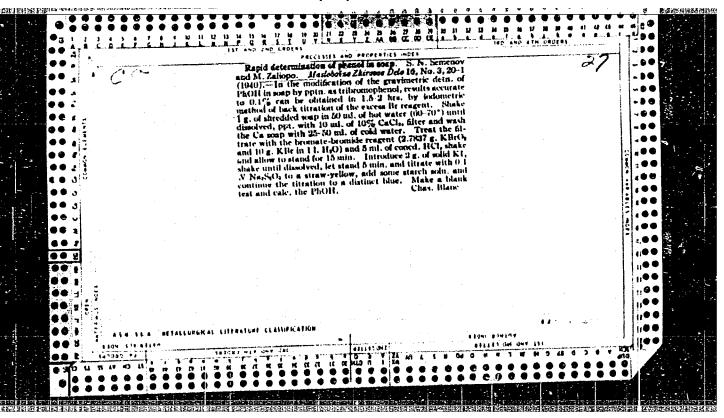
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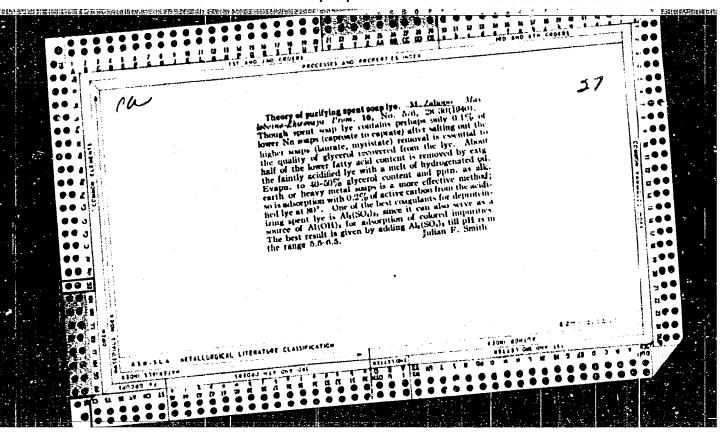


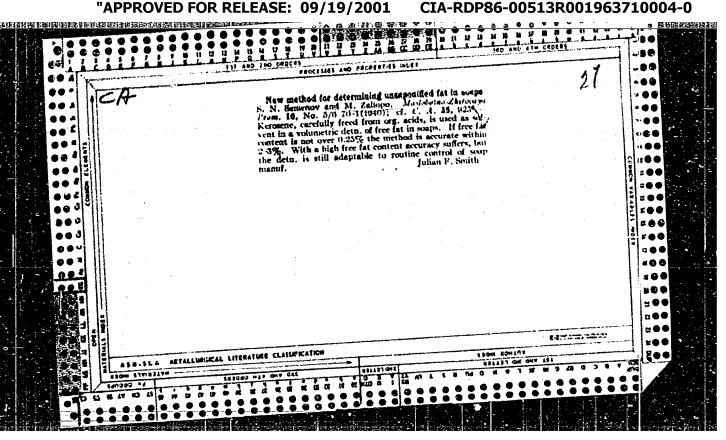












ZALIOPO, M. N.

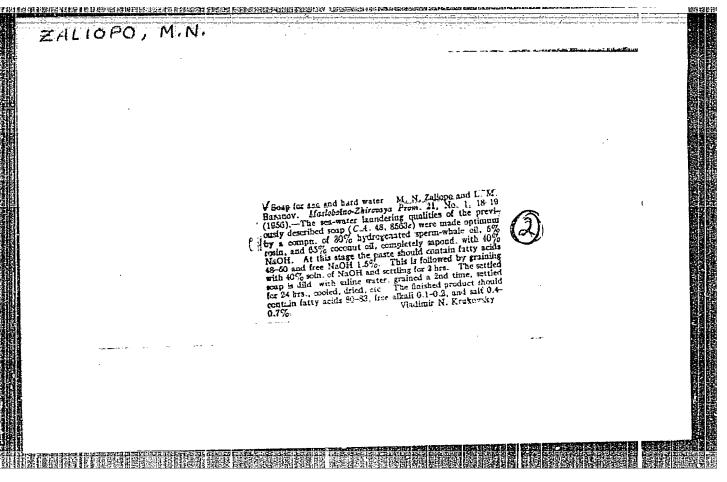
Soap for see water. M. N. Zaliopo, L. M. Baranov, 2nd G. A. Borodina. Mathebatho-Thiretopy Prom. 19, No. 2, 10-18 (1954).—Manuf. of soap from coconut oil (I) with good phys. and sea water laundering qualities is described. One half (4.4-5 tons) part of the I charge is run into the pan, and 40% soln. of NaOH is added until about 10% excess of alkali necessary to suponify I is present. An addal, 2 tons of I is run into the same pan and supond. The resulting paste (II) is treated with 20% soln. of NaCl at the rate of 1% of salt based on the wt. of II. The last 2 tons of I is then added to II, and the supon process is repeated. At this stage the soap paste (III) should contain fatte acids 42-45, free NaOH 1-1-4, and NaCl 1-1-2%. On 1-aving the pan III is cooled with water at 11° prior to drying, the pan III is cooled with water at 11° prior to drying the pan is by mech. passage through a continuous drier with Drying is by mech. passage through a continuous drier with air-intake temp, at 90° and the exhaust at 50-52°. The soap shavings, conty, fatty acids 63-55 and free alkali 1.5-1.9% are mixed first with synthetic fatty acids (Cn-C<sub>1</sub>) to improve the plasticity of the inished product and to reduce its alkali content to C.2% of the wt. of acids, perfamed, and then compressed into a bar prior to cutting, moistening with glycerol, stamning, and packaging. The authors claim that this soap was used successfully in the maritime provinces for washing purposes.

ZALIOPO, M.N.; BARANOV, L.M.; BORODINA, G.A.

Use of synthesic fatty acids in the production of toilet soap.

Masl.-stir.prom. 19 no.6:17-21 154.

(Soap) (Acids, Fatty)



IALIOPO, M.N. inzh.

Method of determining sodium and potash soaps in mixtures of the two. Masl.-zhir.pron. 23 no.9:27-29 '57. (MIRA 10:12)

1.Fabrika "Svoboda."

(Soap--Analysis)

ZALIOPO, M.N., imsh.; SHAROV, I.I., insh.

Preparation of toilet scap from fats eplit without the aid of a catalyst. Easl.-shir. prom. 24 no. 6:17-19 \*58. (KIRA 11:7)

1. Fabrika "Sychoda" (for Zaliopo). 2. Upravleniye meditakinakoy i parfyumerney promyshlennosti Hosgorsovnerkhoza (for Sharov). (Soap)

VOZNESENSKAYA, G.A., kand.med.nauk; BOZIYAN, Kh.A., vrach (Stepanakert); SILUYANOVA, V.A., kand.med.nauk; GRIGOROVSKIY, I.M., prof.; KUNDIYEV, Yu.I., kand.med.nauk (Kiyev); MARSHAK, M.S., prof.; ZALIOFO, M.N.; DONETSKAYA, L.M.; ORGANOVA, M.G.

Health hints. Zdorov'e 9 no.3:30-31 Mr 163. (HYGIENE)

(MIRA 16:5)

GETMANSKIY, I.K., inzh.; PANCHENKO, A.F.; ZALIOPO, M.N., inzh.; DONETSKAYA, L.M.

Liquid shampoo made from purified alkyl sulfates of secondary synthetic alcohols. Masl.-zhir. prom. 27 no.9:17-18 S '61.

(MIRA 14:11)

1. Nauchno-issledovatel'skiy institut sinteticheskikh zhirozameniteley i moyushchikh sredstv (for Getmanskiy, Panchenko). 2. Fabrika "Svoboda" (for Zaliopa) Donetskaya).

(Shampoo)

ROZHDESTVENSKIY, D.A.; ZALIOFO, M.N.; BORODINA, G.A.

Phase transitions in soap and their quantitative analysis. Koll.
zhur. 22 no.4:458-463 Jl-Ag '60. (MIRA 13:9)

1. Institut narodnogo khozyaystva im. G.V.Flekhanova i Fabrika
"Svoboda", Moskva. (Soap)

ZALIOPO, M.N., inzh.

Use of sodium s licate in the manufacture of toilet soap. Wasl.—zhir.prom. 26 no.10:40-42 0 \*60. (MIRA 13:10)

1. Moskovskaya fabrika "Svoboda." (Scap) (Sodium silicate)

ROZHDESTVENSKIY, D.A., kand.tekhn.nauk; ZALIOPO, M.N., insh.; BORODINA, G.A., insh.

Phase changes in soap and their quantitative determination. Masl.-zhir.prom. 25 no.9:24-28 159. (MIRA 12:12)

1. Institut narodnogo khozyaystva im. G.V.Plekhanova (for Rozhdestvenskiy). 2. Moskovskaya fabrika "Svoboda" (for Zaliopo, Borodina)
(Soap)

PERSHIN, G.N., prof.; KRAFT, M.Ya., prof.; ROZENTUL, M.A., prof.;
POZHARSKAYA, A.M., starshiy nauchnyy sotrudnik;
MILOVANOVA, S.N., starshiy nauchnyy sotrudnik; BORODINA, G.M.,
starshiy nauchnyy sotrudnik; MASLOV, P.Ye., starshiy nauchnyy
sotrudnik; IVANOVSKAYA, Ye.A., mladshiy nauchnyy sotrudnik;
ARONSON, P.Yu., mladshiy nauchnyy sotrudnik; KANCHUKH, Sh.F.;
SHEYER, A.A.; ZALIOPO, M.P., spetsialist po moyushchim sredstvan

Treatment of your hair with selenium sulfide soap. Izobr. i rats. no.12:32-33 163. (MIRA 17:2)

1. Zaveduyushchiy laboratoriyey khimioterapii infektsionnykh zabolevaniy Vsesoyuznogo nauchno-issledovatel skogo khimiko-farmatsevticheskogo instituta im. Ordzhonikidze (for Pershin).

2. Zaveduyushchiy laboratoriyey metalloorganicheskikh soyedineniy Vsesoyuznogo nauchno-issledovatel skogo khimiko-farmatsevticheskogo instituta im. Ordzhonikidze (for Kraft).

3. Zaveduyushchiy otdelom TSentral nego kozhno-veneralogicheskogo instituta (for Rozentul). 4. Zaveduyushchiy laboratoriyey lekarstvennykh form Vsesoyuznogo nauchno-issledovatel vatel skogo khimiko-farmatsevticheskogo instituta im. Ordzhoni-kidze (for Pozharskaya). 5. Vsesoyuznyy nauchno-issledovatel skiy khimiko-farmatsevticheskiy institut im. Ordzhonikidze (for Milovanova, Borodina, Ivanovskaya, Aronson). 6. Tsentral nyv kozhno-venerologicheskiy institut (for Maslov).

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CIA-RDP86-00513R001963710004-0

AUTHOR:

Zalipayev, I. B.

TITLE:

Rapid Cooling of Ceramic Pipes in Furnaces (Skorostnoye okhlazhdeniye

keramicheskikh trub v gornakh)

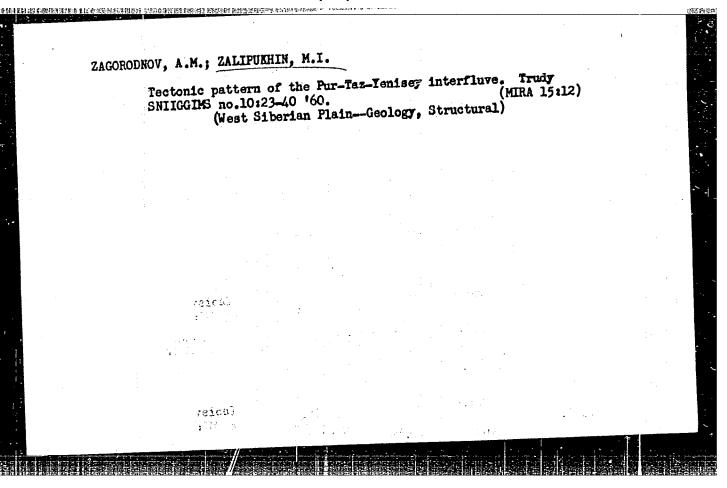
PERIODICAL:

Stoklo i Keramika, 1957, Vol. 14, No. 1, pp. 25-26 (U.S.S.R.)

ARSTRACT:

A new method was adopted at the Doroginsk Ceramic Pipe Factory (Doroginskiy keramiko-trubnyy zavod) which permits rapid cooling of ceramic pipes in furnaces within 27 - 30 hours, and reduces the pipe flows from 6 to 1%. After firing, all furnace doors and shutters are sealed with clay solution. The cooling air is introduced under the furnace roof arch (Fig. 1) and the pipes are gradually cooled according to the curve in Fig. 2. At the furnace temperatures of 580 - 600°, the cooling air flow is reversed temperatures of 580 it enters the furnace through the hearth. At (Fig. 3), that is, it enters the furnace through the hearth. the furnace temperatures of 180 - 200°, a water spraying unit is introduced into the furnace shaft and the water is sprayed two hours later. The rate of cooling pipes at an even cooling air flow throughout the furnace can be attained at about the same rate as furnace heating.

Card 1/2



ZALIS, A.I., kand. sel'skokhoz. nauk (Litovskaya SSR)

Distribution of the industries and development of witroger fertilizer assortment in the northwestern region of the (MIRA 13:4)

U.S.S.R. Trudy LIE1 no.37:70-72 '61.

ZALIS, A.I., kand. sel'skokhoz. nauk; MEKLENBURGAS, A.M., kand.sel'skokhoz.

nauk; LAUSKIS, S.K.

Using peat in agriculture in the Lithuanian S.S.R. Zemledelie 25 no.7:

(MINA 16:9)

72-77 Jl '63.

1. Litovskiy nauchno-issledovatel'skiy institut zemledeliya.

(Lithuania—Field crops— Fertilizers and manures)

(Lithuania—Peat)

ZALIS, S.A.

AUTHOR:

Sadovnichenko, A.I., Engineer

SOV/117-58-11-34/36

TITLE:

The Day of the Innovator (Den' novatora)

PERIODICAL:

Mashinos roitel', 1958, Nr 11, pp 44 - 45 (USSR)

ABSTRACT:

At the Nevskiy mashinostroitel'nyy zavod imeni V.I. Lenina (Neva Machine Building Plant imeni V.I. Lenin) a "Day of the Innovator" was organized on June 18, 1958, by the Komitet po metallizatsii Leningradskogo otdeleniya NTO Mashproma (Committee for Metallization, of the Leningrad Branch of NTO Mashprom). The leading engineer of the plant laboratory, S.A. Zalis, read a paper on the use of metallization in the Leningrad plants. The assistant of the chief engineer of the plant, A.V. Petuknov, spoke on the development of metallization in the plant. Metallization has shown good results in the repair of worn machine parts.

1. Flame spraying---USSE

Card 1/1

ZALIS, 5.A.

ZALIS, S.A., inzh.

Advanced technology. Mashinostroitel' no.1:46-47 Ja '58. (MIRA 11:1) (Technology)

. AUTEOR: Zalis, S.A. Engineer S07/122-58-5-18/26

TITLE:

The Aluminizing of Welded Components of Large Bulk (Alitirovaniye krupnogabaritnykh svarnykh detaley)

PERIODICAL:

Vestnik Elektropromyshlennosti, 1958, Nr 5,

pp 69 - 70 (USSR)

ABSTRACT: The saturation of the surface layer of steel with aluminium by a furnace diffusion process increases the resistance to scaling. The combination of temperature, time and size creates difficulties in large welded components, subject to deformations when heated. Some workshop practices developed at the Nevskiy mashinostroitel nyy zavod (Nevskiy Engineering Plant) imeni Lenin are described, applied to the welded housings of induced draught fans. The procedures concern the prevention of deformation by applying constraints, the shortening of the time between cleaning by sand-blasting; and the metallizing with aluminium, the coating with a protective paste (48% silver graphite, 20% fireclay, 30% quartz sand and 2% ammonia chloride) dissolved in waterglass (about 100% of the dry constituents), and the diffusion treatment. The treatment recommended consists of placing the component in the furnace, heated to 250 °C and holding for Card 1/2

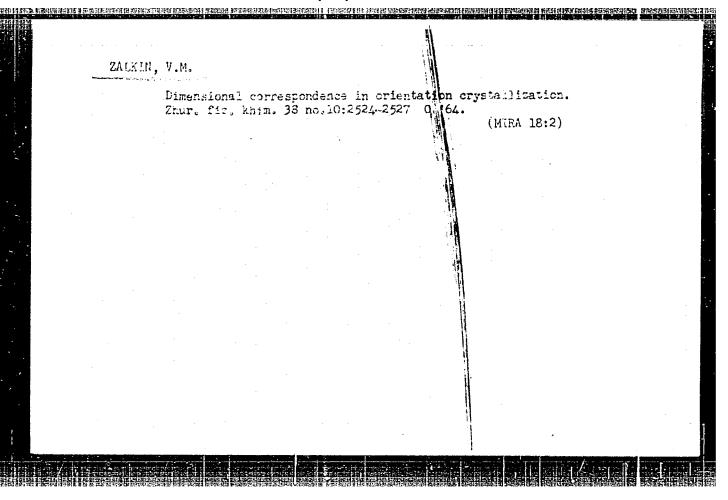
The Aluminizing of Welded Components of Large Bulk

SOV/122-58-5-18/26

30 minutes, heating at the rate of 45 °C per hour up to 550°C, holding for 35 minutes, heating at the rate of 70°C per hour to 960°C, holding for 3 3/4 hours and finally cooling in the furnace to 300°C. The success of a similar treatment applied to gas turbine blades is mentioned.

1. Metals--Scale 2. Aluminum--Applications

Uard 2/2



GURDZHI, A.Ya.; ZALIS, V.M.; GOLOVIN, A.I.

Method of the continuous scrubbing of the nitration products of methyl other of 4-tert-tutyl-m-cresol in the production of musk ambrette. Trudy VNIISNDV no.6:156-158 '63. (MIRA 17:4)

ZALIS-ZALANSKAS, A. I. Doc Cand Agr Sci — (diss) "The role of various peat fertilizers in the raising of fertility of the light soils and the productivity of crops cultivated on these soils in the conditions of the Eastern zone of Lithuanian Kaunas, 1957. 20 pp 20 cm. (Min of Agricultura USSR. Lithuanian Agricultural Academy), 100 copies (KL, 21-57, 104)

-79-

SOV/124-58-10-11045

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 10, p 48 (USSR)

AUTHOR: Zalishauskas, M.

TITLE: The Application of Turbulent Rarefaction to the Theory of Jet Devices

(Primeneniye turbulentnogo razrezheniya v teorii struynykh

apparatov)

PERIODICAL: Tr. Kaunassk. politekhn. in-ta, 1957, Vol 5, pp 47-58

ABSTRACT: In analyzing the causes of the differences between the theoretical calculation of an ejector pump and the results of experiments, the

author arrives at the conclusion that the initial equation of ejection is erroneous and adds to it a term which takes into account the so-called "turbulent rarefaction". Results of experiments are presented which, in the author's opinion, confirm the hypothesis introduced by him. The mixing of the fluid from the surrounding medium with the jet actually occurs in conditions of a positive pressure differential between the ejected medium and the working jet, but this differential is small (it constitutes ~0.1% of the dynamic pressure

of the flow) and taking it into account in the ejection equation will, therefore, hardly have a significant effect upon the result. The

SOV/124-58-10-1:.045

The Application of Turbulent Rarefaction to the Theory of Jets Devices

author's conclusion regarding the confirmation of his calculations by the results of experiments needs verification and is evidently explained by inaccuracy in the experiments.

G. N. Abramovich

Card 2/2

CIA-RDP86-00513R001963710004-0" APPROVED FOR RELEASE: 09/19/2001

Rarefaction in Relation to to the Theory of Jet Apparata."

Minsk, 1957. 13 pp 22 cm. (Min of Higher Education USSR,

Belorussian Polytechnic Inst im I. V. Stalin ), 100 copies

(KL, 25-57, 113)

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